

KOWALIK, Zygmunt

Internal waves in the Baltic Sea. Acta geophys Pol 11 no.3:  
171-178 '63.

1. Stacja Morska ZG, Polska Akademia Nauk, Sopot.

KOWALIK, Zygmunt

Note on the eigenfrequencies in the internal waves in the ocean. Acta geophys Pol 12 no.1: 53-56 '64

1. Marine Station Sopot, Polish Academy of Sciences.

KOWALIK, Zygmunt, mgr inż.; LASKA, Mieczysław, mgr inż.

Internal waves as seen on the example of Lake Wadag near  
Olsztyn. Archiw hydrotech 11 no.2:243-253 '64.

1. Marine Station, Sopot, of the Institute of Geophysics of  
the Polish Academy of Sciences.

L 01271-67

ACC NR: AP6031511

SOURCE CODE: PO/0026/66/014/002/0121/0125

AUTHOR: Kowalik, Zygmunt

ORG: Marine Station, ZG PAN, Sopot (Stacja morska ZG PAN)

TITLE: Short-period internal wave measurements by means of echo sounding

SOURCE: Acta geophysica polonica, v. 14, no. 2, 1966, 121-125

TOPIC TAGS: oceanographic ship, sound waves, oceanographic research, echo sounding, underwater sound wave reflection

ABSTRACT: During oceanographic research in the area of Gdansk Bay (Glebia Gdanska) on the R/V from 29—31 May 1964, systematic echo-sounding observations of layers reflecting sound waves were made. Two distinct echograms were found in the day-night cycle. The nocturnal echogram showed the reflecting layers, i. e., one at the water surface and the other at the bottom. The diurnal echogram recorded one distinct layer at a depth of about 80 m. The depth of this layer changes periodically. At the 80-m depth the computed variation period is  $\sim 2$  min, while measurements give a period of 1.5 min. This means that changes recorded by the echo

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ACC NR: AP6031511

sounding devices are due to short-period internal waves. Orig. art. has: 3 figures  
and 1 table. [Based on author's abstract] [DR]

SUB CODE: 08, 13, 17/ SUBM DATE: 22Sep65/ OTH REF: 003/

Card 2/2 mjs

ACC NR: AP7000288

(N)

SOURCE CODE: PO/0027/66/000/003/0183/0192

AUTHOR: Kowalik, Zygmunt

ORG: Marine Station, ZG PAN, Sopot (Stacja morska ZG PAN)

TITLE: Vertical heat exchange in the waters of the Baltic Sea during 1950--1962

SOURCE: Przegląd geofizyczny, no. 3, 1966, 183-192

TOPIC TAGS: temperature distribution, sea water, temperature measurement,  
turbulent heating / *BALTIC SEA*

ABSTRACT: Vertical temperature distribution in the waters of the Baltic Sea is investigated using as the reference the international survey point, the Gdansk Depth,  $P_1$  (ca. 110m). Of the two basic factors affecting the vertical temperature distribution at a given point (turbulent heat exchange and heat advection from the Northern Sea) the first is studied in detail due to its greater importance. The effect of the interface, across which a significant density shift occurs, upon the vertical temperature distribution is thoroughly covered. The interface divides the upper layer, affected by solar heat, from the lower layer, which is under the influence of heat advection from the Northern Sea. It was established that the Fjeldstad method is satisfactory in the determination of the molecular as well as the turbulent heat transfer. The calculated magnitude of the coefficient  $K_z$ , which varies

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ACC NR: AP7000288

with the depth, indicates whether the process is turbulent. The annual variations in the temperature of the studied area are illustrated. Orig. art. has: 11 formulas, 2 tables, and 5 figures.

SUB CODE: 08/ SUBM DATE: 11Jun66/ ORIG REF: 007/ SOV REF: 005/ OTH REF: 008.

Card 2/2

KOWALIK-BODZAK, Danuta

Conference of the Geographical Institute of the Polish Academy of  
Sciences on Studies on the spatial system of Polish rural regions.  
Przegl geogr 35 no.3:530-531 '63.



SCHABINSKI, Stanislaw; KOWALINSKI, Pal [translator]

Centralization of the forest and wood economy as the principal  
factor in developing Poland's wood industry. Faipar 10  
no.7:193-197 JI '60.

SZYDŁOWSKI, Marian, mernok; KOWALINSZKY, Pal [translator]

A modern bentwood furniture factory in Poland. Faipar 10  
no.9:273-282 S '60.

KOWALINSZKY, Pal

"Hot-blast cupola furnaces" by Ryszard Chudzikiewicz. Reviewed  
by Pal Kowalinszky. Koh lap:Suppl.:Ontode 14 no.9:205 S '63.

KOWALINSZKY, Pal [translator]

Hungarian furniture experts in the Polish society. Faipar 10  
no.9:285-288 S '60.

RACZKOWSKI, Jan; KOWALINSKI, Pal [translator]

Kinematics of the swelling pressure of wood. Faipar 12 no.1:  
9-21 Ja '62.

KOWALINSKI, S.

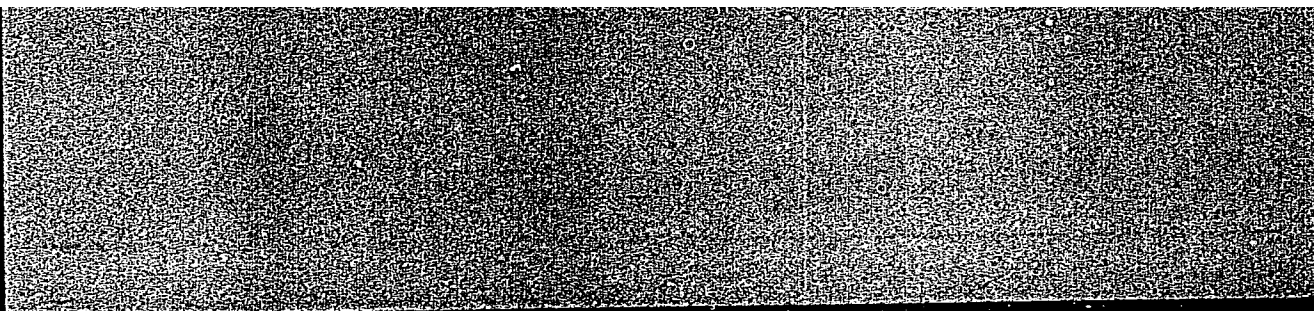
WIERZBICKI, J.: KOWALINSKI, S. "Soil Structure Of Fields Irrigated With Sewage" p. 290.

(Gaz, Woda I Technika Sanitarna, Vol. 27, no. 10, Oct. 1953, Warszawa)

East European Vol. 3, No. 2,  
SO: Monthly List of ~~Russian~~ Accessions, Library of Congress, February , 1954 ~~1953~~, Uncl.

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**APPROVED FOR RELEASE: Monday, July 31, 2000**

**CIA-RDP86-00513R000825710C**

POLAND/Soil Science - Soil Genesis and Geography.

J

Abs Jour : Ref Zhur Biol., No 1, 1959, 1321

Author : Kawalkowski, A., Kowalinski, S., Krolkowski, L.,  
Kuznicki, F., Kwinichidze, M., Musierowicz, A.,  
Prusinkiewicz, Z.

Inst : -

Title : Natural Genetic Classification of Polish Soils

Orig Pub : Roczn. nauk rolniczych, 1956, D74, 96 s., I-XXIV mpy

Abstract : No abstract.

Card 1/1

- 5 -



KOWALINSKI, Stanislaw

Fundamental deliberations on soil fertility. Postepy nauk roln  
9 no.6:3-17 N-D '62.

1. Katedra Gleboznawstwa, Wyzsza Szkola Rolnicza, Wroclaw.

KOWALINSKY, P.

G. Murski and R. O'Donnel's Hengerelt gyartmanyok hibai (Faults in Laminated Products); a book review, p. 338, KOHASZATI LAPOK, (Magyar Banyaszati és Kohaszati Egyesulet) Budapest, Vol. 11, No. 7, July 1956

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 5, No. 11, November 1956

KOWALINSKY, P.

Technical vocabulary, p. 339, KOHASZATI LAPOK, (Magyar Banyaszati  
es Kohaszati Egyesulet) Budapest, Vol. 11, No. 7, July 1956

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 5, No. 11, November 1956

RAWALKOWSKI, A.

The natural and genetic classification of Poland's soils with specific emphasis on soils under cultivation approved by the Commission for the Classification of the Names and Cartography of Soils, May 21, 1965. p. 5.  
(XEROGRAPHIE. Vol. 74, 1966., Warszawa, Poland)

90: Monthly List of East European Accessions (PERL) IC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

POLAND/Soil Science - Soil Genesis and Geography.

J

Abs Jour : Ref Zhur Biol., No 1, 1959, 1321

Author : Kowalkowski, A., Kowalinski, S., Krolikowski, L.,  
Kuznicki, F., Kwinichidze, M., Musierowicz, A.,  
Prusinkiewicz, Z.

Inst : -

Title : Natural Genetic Classification of Polish Soils

Orig Pub : Roczn. nauk rolniczych, 1956, D74, 96 s., I-XXIV mapy

Abstract : No abstract.

Card 1/1

- 5 -

KOMALKOWSKI, AL., AND OTHERS.

Genetic classification of Polish soils. p. 3

ROCZNIKI GLEBOZNAWCTE. (Polski Towarzystwo Gleboznawcze) Warszawa, <sup>POLAND</sup>  
Vol. 8, no. 1, 1959.

Monthly List of East European Accession (EEAI) IC, Vol. 9, no. 1, Jan. 1960.

Uncl.

HOFFMANN, Marian; KOWALKOWSKI, Alojzy

Black earths of the Sroda Plain and their physiographic conditions. Prace nauk roln i lesn 12 no.3:3-39 '62.

1. Chair of Science of Soils and Chair of Cultivation and Fertilization of Soils, Higher School of Agriculture, Poznan.

KOWALKOWSKI, Alojzy; HOFFMANN, Marian

Brown soils formed of Pleistocene clays in the Pyritz  
Lowland. Prace nauk roln i lesn 12 no.3:41-66 '62.

1. Chair of Science of Soils and Chair of Cultivation and  
Fertilization, Higher School of Agriculture, Poznan.



MARSZALEK, Barbara (Wroclaw); KOWALKOWSKI, Alojzy (Poznan); SIUTA, Jan  
(Pulawy)

National Polish conference on slopes in Breslau. Czasop geogr  
35 no.2:242-245 '64

KOWALKOWSKI, Tadeusz

Role and importance of the Institute of Paints and Lacquers.  
Polimery tworzywa wielk 8 no. 11: 405 N '63.

1. Zjednoczenie Przemysłu Farb i Lakierów, Gliwice.

Thermal distillation of feed water and control of residual acidic materials. S. Kowalik. Research 3, 173-4 (1953). Corrosion of equipment by acidic materials carried over in entrained liquid in thermal distillation of feed water. This can be controlled by keeping the thermal gradient low in the distillation step. Thomas J. Walsh.

KOWALOWA, M.

BOBRANSKI, B.; HAWRYSZOWA, K.; KOWALOWA, M.

Utilization of waste brewer's yeasts in production of purine alkaloids. Acta Poloniae pharm. 11 Suppl.:37-40 1955.

1. Zdział Chemii Farmaceutycznej Akademii Medycznej we Wrocławiu.  
(PURINES, preparation of,  
from brewer's yeasts, discarded yeasts in breweries)  
(YEASTS, DRIED,  
brewer's yeasts, isolation of purines from brewery wastes)

KOWALOWKA, Andrzej, mgr.

Oxidation phenomena of oils and methods for its prevention. Nafta  
Pol 17 no.19:343-347 '61.

1. Centralne Laboratorium Technologii Nafty, Krakow.

BOZNANSKI, Adam; KOWALOWA, Stanislaw; FALECKI, Marian

Usefulness of mixtures of bog iron ore with pickling sludges for the purification of gas from hydrogen sulfide. Koks 7 no.2:63-66  
Mr-Ap 62.

1. Centralne Laboratorium Gazownictwa, Warszawa.

BOZNANSKI, Adam, mgr; KOWALOWA, Stanislaw, mgr; FALECKI, Marian, mgr;

Application of oxygen carriers in the process of dry purification  
of gas from hydrogen sulfides. Gaz woda techn sanit 37 no.1:2-6  
Ja '63.

1. Central Gas Engineering Laboratory, Warsaw.

KOWALOWNA, B.

GIBINSKI, K.; BARANOWSKI, T.; MEJBAUM-KATZENELLENBOGEN, W.; BOGDANIKOWA, B.;  
KOWALOWNA, B.

Original investigation of application of ACTH in internal medicine.  
Polski tygod. lek. 7 no. 33-34:997-1008 25 Aug 1952. (CLML 23:5)

1. Of the Third Internal Clinic (Head--Prof. E. Szczeklik, M.D.) and  
of the Institute of Physiological Chemistry (Head--Prof. T. Baranowski,  
M. D.), Wroclaw Medical Academy.



KOWALOWSKI, Henryk, dr

Determination of the electrodynamic forces in the stator windings of high-power turbogenerators. Przegl elektrotechn 40 no.5:218-221 My '64.

1. Department of Electric Machines, Institute of Electrical Engineering, Warsaw.

KOWALSKA, A.

Some remarks on the theory of photodisintegration of  $\text{Be}^9$  and  $\text{Li}^7$ .  
Acta physica Pol 20 no.12:1019-1020 '61.

1. Institute of Theoretical Physics, Jagellonian University, Cracow.

(Isotopes)

KOWALSKA, A.

A simple theory of the photodisintegration of  $^9\text{Be}$  at low energies.  
Acta physica Pol 21 no.6:583-596 Je '62.

1. Institute of Theoretical Physics, Jagellonian University, Krakow.

CZERLUNCZAKIEWICZ, B.; KOWALSKA, A.

Double differential cross section for slow neutron scattering  
on gaseous ammonia molecules. Acta physica Pol 25 no.1:141-144  
Ja '64

1. Department of Theoretical Physics, Jagellonian University,  
Krakow.

POLAND/General Biology. Individual Development. Embryonic Development.

B

Abs Jour: Ref Zhur-Biol., No 17, 1958, 76282.

Author : Kowalska, Alina.

Inst :

Title : Duration of Embryonic Development of River Trout  
(*Salmo trutta n. fario*).

Orig Pub: Zesz. nauk. Univ. wroclawski, 1957, B, No 2, 53-62.

Abstract: The growth of 15 stages of development of the embryo in river trout (*Salmo trutta n. fario*) was determined at  $8.5^{\circ}$  in day-degrees (product of the average temperature of incubation and the duration of the development in days). This number remains constant in the beginning stages of the development in the opinion of the author.

Card : 1/1

KOWALSKA, Anna

Fluctuations of the upper table level of the ground water.  
Przegl geogr 34 no.2:281-295 '62.

LAND / Microbiology. Microbes Pathogenic to Man and F-5  
Animals. Bacteria. Bacteria of the Intestinal  
Group.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72122.

Author : Kowalska, Daniela; Mikucki, Jozzy.

Inst : Not given.

Title : Antigenic and Biochemical Properties of Strains  
of Escherichia coli alpha - and beta - Types Iso-  
lated During Diarrhea in Children.

Orig Pub: Pediatr. polska, 1957, 32, No 6, 671-677.

Abstract: Antigenic and biochemical properties were studied  
of 129 strains of type alpha (O111 B4) and 59  
strains of type beta (O55 B5) isolated from child-  
ren with diarrhea in Lodz. Strains were tested  
for the presence of flagellate antigens with anti-  
sera H<sub>2</sub>, H<sub>6</sub>, H<sub>7</sub>, H<sub>11</sub>, H<sub>12</sub>, and H<sub>21</sub>. According to the

Card 1/3

POLAND / Microbiology. Microbes Pathogenic to Man and F-5  
Animals. Bacteria. Bacteria of the Intestinal  
Group.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72122.

Abstract: biochemical properties strains of type alpha were divided into 7 groups, strains of type beta - into 4. On the basis of the division the relationship was stated to saccharose, rhamnose, dulcitol, maltose and sorbitol. Part of the alpha-strains were inactivated during isolation, but after a series of passages became active. A majority of the beta-strains possessed the antigenic formula 0111:B4:H<sub>2</sub> and corresponding biochemical properties. A significant part of the strains differed from them in relation to saccharose, dulcitol and sorbitol. A great majority of the strains of the beta type possessed the antigenic formula 055:B5:H<sub>6</sub>, and

Card 2/3



POLAND / Microbiology. Microbes Pathogenic to Man and F-5  
Animals. Bacteria. Bacteria of the Intestinal  
Group.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72122.

Abstract: possessed similar biochemical properties which,  
seemingly is explained by the fact that these  
strains were isolated during the same epidemic .  
The authors draw attention to strains isolated  
by them of another type which biochemically dif-  
fers from those described in world literature up  
to the present. -- M. A. Gruzman.

Card 3/3

GANCZARSKI, A.; SROCZYNSKI, K.; BROZIK, H.; GOLDSTEIN, L.; KOWALSKA, D.;  
LIPINSKA, I.; MIKUCKI, J.; NAREBSKA, E.; RADZIKOWSKA, H.

Effect of *Bacillus subtilis* on the course of infant diarrhea and  
intestinal flora. *Pediatr pol* 36 no.2:117-128 F '61.

1. Z I Kliniki Chereb Dzieci A.M. w Lodzi Kierownik Kliniki: doc.  
dr med. K. Sroczyński Kierownik Katedry A.M. i W.A.M. w Lodzi:  
prof. dr med. Fr. Redlich i z Zakladu Bakteriologii A.M. i W.A.M.  
w Lodzi Kierownik: zastepca prof. dr med. A. Ganczarski.

(DIARRHEA in inf & child) (BACILLUS SUBTILIS infect)

KOWALSKA, Ewa; JANKOWSKI, Maciej; LESINSKI, Jan

Temperature and voltage rating of the DOB-60 current counter.  
Przegl elektroniki 3 no.9:533-535 S '62.

1. Przemyslowy Instytut Elektroniki, Warszawa.

KOMALSKA, E.

Kinetics of oxidation of local pyrite. p. 474. (PRZEMYSŁ CHEMICZNY, Vol. 10, No. 9, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (HEM), 10, Vol. 3, No. 12, Dec. 1954, Uncl.

KOWALSKA, E.

"Kinetics of the thermal decomposition of magnesium sulfate."

p. 442 (Przemysl Chemiczny) Vol. 12, no. 8, Aug. 1956  
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

KOWALSKA E.

POLAND / Chemical Technology. Chemical Products and H  
Their Applications. Chemical Wood Products.  
Hydrolysis Industry.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 13323.

Author : ~~Kowalska, Eugenia.~~

Inst : ~~Not given.~~

Title : Saturation of Wood with Formation of Sodium  
Fluorosilicate Within the Wood Cells.

Orig Pub: Przem. chem., 1958, 37, No 6, 421-424.

Abstract: A new method for wood saturation consists of its  
absorption of an NaCl solution and then of an  
H<sub>2</sub>SiF<sub>6</sub> solution. By means of x-rays, it was  
established that as a result of such treatment,  
difficult to dissolve Na fluorosilicate is formed  
within the wood cells. The limits of its fungici-  
dal effect on the strain Coniophora cerebella were

Card 1/2

POLAND / Chemical Technology. Chemical Products and H  
Their Applications. Chemical Wood Products.  
Hydrolysis Industry.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 13323.

Abstract: Investigated for saturated wood not subjected to  
flushing as well as for wood saturated and alkal-  
ized with water. The corrosive effect of NaCl and  
H<sub>2</sub>SiF<sub>6</sub> solutions on common steel was studied. It  
was established that the method indicated for  
saturation is useful for wood saturation. Outlay  
for such saturation is six times lower than with  
the "flural'sil" which is usually used. -- From  
the author's resume.

Card 2/2

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KOWALSKA, Eugenia, doc., mgr. inz.; MAZANEK, Czeslaw, mgr. inz.

Possibilities of using in power engineering and mining  
industries the dispersive and coagulating action of supersonics.  
Przegl gorn 18 no.5:290-292 My '62.



KOWALSKA, Eugenia; KOWALSKI, Witold

Influence of temperature upon the rate of formation of hydrogen sodium pyrophosphate from monosodium orthophosphate. Przem chem 41 no.2:73-74 F '62.

Politechnika Slaska, Gliwice.

KOWALSKA, Eugenia; MAZANEK, Czeslaw

Ultrasonic surface purification. Przem chem 41 no.8:421-422  
Ag '62.

1. Politechnika Slaska, Gliwice.

KOWALSKA, Eugenia; KOWALSKI, Witold; MAZANEK, Czesław

Propagation velocity of ultrasonic waves in aqueous solutions  
of sulfuric acid. Chemia stosow 7 no.4:585-592 '63.

1. Katedra Chemii Ogolnej A, Politechnika Slaska, Gliwice.

KOWALSKA, Eugenia, doc. mgr inz.; MAZANEK, Czeslaw, mgr inz.

Cavitation in the ultrasonic impact grinding process.  
Hutnik P 30 no.12:392-394 D '63.

1. Politechnika Slaska, Gliwice.

KOWALSKA, Eugenia, doc.; SOLLORZ, Jerzy, mgr

Complexometric determination of calcium in orthophosphoric acid  
solutions after separation of phosphate ions on anion exchangers.  
Chem anal 9 no.2:349-352 '64.

1. Department of General Chemistry A, Technical University, Gliwice.

KOWALSKA, Eugenia, doc.mgr inz.; MAZANEK, Czeslaw, mgr inz.

Influence of acoustic vibration on the intensification of the fuel combustion process. Wiad hut 15 [i.e. 20] no.1:9-10 Ja '64.

KOWALSKA, Eugenia, doc. mgr inż.; KOWALSKI, Witold, doc. dr inż. MAZANEK,  
Czesław, mgr. st. asystent

Ultrasonic cavitation. Wiad chem 18 no.3:147-157 Mr'64

1. Kierownik Katedry Chemii Ogólnej A, Politechnika Śląska,  
Gliwice (for Kowalska). 2. Kierownik Zakładu Technologii  
Związków Siarki i Fosforu, Politechnika Śląska, Gliwice (for  
Kowalski). 3. Katedra Chemii Ogólnej A, Politechnika Śląska,  
Gliwice (for Mazanek).

KOWALSKA, Eugenia, doc. mgr inz.; GUBRYNOWICZ, Leslaw, mgr inz.;  
STRONICH, Teresa, mgr inz.

variations in the bulk of coal in the low-temperature acidation  
process of certain types of coal mined in Poland. Przegl gorn 20  
no.4, 205-209 Ap '64.



L 41770-66 EWT(1)/T/EMP(k)  
 ACC NR: AP6031700 (N) SOURCE CODE: PO/0099/66/040/003/0469/0473  
 AUTHOR: Kowalska, Eugenia; Kowalski, Witold; Bodzek, Michal; Mazanek, Czeslaw 55  
 ORG: Department of General Chemistry, Slask Polytechnic Institute, Gliwice (Katedra 3  
 Chemii Ogolnej A Politechniki Slaskiej); Technical Institute for Sulfur and Phosphorus  
 Compounds, Slask Polytechnic Institute, Gliwice (Zaklad Technologii Zwiaskow Siarki i  
 Fosforu Politechniki Slaskiej)  
 TITLE: Velocity of ultrasonic waves in disperse systems  
 SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966,  
 469-473  
 TOPIC TAGS: ultrasonic wave, interferometer, emulsion  
 ABSTRACT: Measurements of velocity of ultrasonic waves in naphtha-in-water-emulsion,  
 oleic acid-in-water-emulsion were made. The velocity was measured by means of a  
 resonance-phase interferometer at frequency 1 Mc. The possibility of ultrasonic  
 speed calculation in emulsion from known velocity of ultrasonic waves in the components  
 of emulsion has been analysed. Orig. art. has: 4 figures, 2 formulas and 5 tables.  
 [Based on authors' Eng. abst.] [JPRS: 36,002]  
 SUB CODE: 20 / SUBM DATE: 10Jun65 / ORIG REF: 001 / SOV REF: 002  
 OTH REF: 002

Card 1/2

KOWALSKA, Ewa; JANKOWSKI, Maciej

Durability testing of the DCB-60 current counter. Przegl elektroniki  
3 no.8:481-482 A<sup>o</sup> 162.

1. Przemyslowy Instytut Elektroniki, Warszawa.

L 10772-63

EWI(m)/BDS--AFFTC/ASD

ACCESSION NR: AP3003190

P/0053/63/000/05-/0290/0292

AUTHOR: Lesinski, Jan; Kowalska, Ewa; Janowski, Maciej

TITLE: Design and technology of type DCB-60 and DCB-40 halogen counters

SOURCE: Przegląd elektroniki, no. 5-6, 1963, 290-292

TOPIC TAGS: halogen counters, Gamma rays, radiation, neon, bromine

ABSTRACT: Descriptions are given of the DCB-60 and DCB-40 halogen counters for measuring Gamma-ray intensity in the 0.5-40 and 2-200 hr ranges, developed at the Przemysłowy Instytut Elektroniki (Industrial Institute of Electronics [Poland]). The concentric position of the anode inside the cathode cylinder is an essential feature of the counter design, since anode centering has a considerable effect on the maximum current of the counter. This problem was solved by using steatite insulators to hold the anode in place. The cathode of the counter was made of CrFe covered with  $\text{Cr}_2\text{O}_3$ . The counters are filled with a mixture of neon and bromine. The DCB-60 counter operates in the -20 to +55°C temperature range and the DCB-40, in the -40 to +50°C range. Orig. art. has: 2 figures and 1 table.

*Industrial Inst. of Electronics*

Card 1/2/

LESINSKI, J.; KOWALSKA, E.; JANKOWSKI, M.

Basic parameters and characteristics of DOB-40 and DOB-60  
current meters. Archiw elektrotech 12 no.3:609-620 '63

1. Przemyslowy Instytut Elektroniki, Instytut Badan Jadro-  
wych, Warszawa.

*KOWALSKA, H.*

OPIENSKA-BLAUTH, J.; KOWALSKA, H.; PIETRUSIEWICZ, M.

New methods of identification of amino acids on uni- and  
bidimensional chromatograms. Acta biochim. polon. 3 no.4:  
557-580 1956.

1. Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Lublinie  
Kierownik Zakladu: prof. dr. J. Opienska-Blauth.  
(AMINO ACIDS, determination,  
chromatography, uni- & bi-dimensional (Pol))

*KOWALSKA-MORDARSKA, HALINA*

KOWALSKA-MORDARSKA, Halina; MORDARSKI, Marian

Antibacterial properties of Streptomyces. IV. Characteristics of  
Streptomyces strain 229/2702. Arch. immun. ter. dosw. 5:263-270 1957.

(STREPTOMYCES

antibact. properties of strain 229/2702 (Pol))

KOWALSKA, H.

POLAND / Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8045.

Author : Opionska-Blauth, Janina., Kowalska, Halina.,  
Pietrusiewicz, Maria.

Inst : Not given.

Title : Color Reaction of Amino-Acids with Alloxan in  
Chromatographic Analysis.

Orig Pub: Chem. analit., 1957, 2, No 3, 266-272.

Abstract: A study was made of the sensitivity of color reactions, utilized in paper chromatography, of alanine, beta-alanine, amino-isobutyric acid, arginine, aspartic acid, asparagine, cysteine, cystine, glutamic acid, glutamine, glycine, histidine, isoleucine, leucine, lysine, methionine, norleucine, norvaline, ornithine, phenylalanine,

Card 1/3

FOLAND / Analytical Chemistry. Analysis of Organic Substances. E-3

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8045.

Abstract: proline, serine, taurine, tryptophane, tyrosine, valine, diiodotyrosine and threonine, with ninhydrin (I) (2% solution in acetone (II), isatin (2% solution in II with addition of 4% glacial  $\text{CH}_3\text{COOH}$ ), and alloxan (III) (0.25% solution in II), at 16-20° and 100° (RZhKhim, 1956, 72062), and the values of the detectable minima are listed. It was found that for all of the enumerated amino acids the sensitivity of the reaction with III is lower than that of the reaction with I. At 16-20° more distinct spots are obtained than at 100°, and sensitivity of the reactions is greater, but in the cold the colorations de-

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FOLAND / Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8045.

Abstract: develop very much slower (usually over several hours). Only in the case of cysteine and histidine the coloration develops at 16-20° within 15 minutes. -- T. Levi.

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*Kowalska H.*  
OPIENSKA-BLAUTH, J.: KOWALSKA, H.; PIETRUSIEWICZ, M.

Detection of amino acids with the aid of color reaction in chromatographic analysis. Acta physiol. polon. 8 no.3:492-493 1957.

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dr J. Opienska-Blauth.

(AMINO ACIDS, determination,  
chromatography, reaction (Pol))

DOBZANSKA, Alina; KOWALSKA, Halina; KRYSOSIK, Jerzy; PACZOS, Elzbieta

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Blauth. Adres. Lublin, ul. 22 Lipca 82 m. 6.

(LIPOCHONDRODYSTROPHY, urine in

amino acids (Pol))

(HYPERTELORISM, urine in

amino acids (Pol))

(AMINO ACIDS, in urine

in hypertelorism & lipochondrodystrophy (Pol))

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Lublin Kierownik Zakładu: prof. dr J.Opienska-Blauth Kierownik  
Kliniki: prof. dr W.Klepacki  
(INFANT NEWBORN urine)  
(AMINO ACIDS urine)

KOWALSKA, T.

The number of private farms in 1958. p. 442.

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Uncl.

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in Warsaw. Kosmos biol 11 no.5:569-574 '62.

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Soil dephteroids. 1. Morphology and growth properties. Acta  
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1. Aus dem Institut für Allgemeine Mikrobiologie der M. Curie-  
Sklodowska Universität, Lublin.

(SOIL, bacteriology,  
\*dephteroids)

(CORYNEBACTERIUM  
\*diphtheroids in soil)

PAKULA, R.; KOWALSKA, J.; HULANICKA, E.

Effect of U2 irradiation on the streptomycin-resistance marker in the endocellular and isolated transforming principle. Bul Ac Pol biol 7 no.9:345-351 '59. (EAI 9:6)

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Presented by E. Mikulaszek.  
(ultraviolet rays) (Streptomycin) (Cells)



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(STREPTOMYCIN pharmacol.)  
(ULTRAVIOLET RAYS eff.)

KOWALSKA, Janina; PAKULA, Roman

Studies on bacteriophage receptors in *Streptococcus pyogenes*.  
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1. Z Zakladu Bakteriologii PZH w Warszawie.  
(STREPTOCOCCUS PYOGENES) (BACTERIOPHAGE)

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(ULTRAVIOLET RAYS)  
(STREPTOCOCCUS)  
(DIPLOCOCCUS PNEUMONIAE)

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KOWALSKA, K.

Works on the design of the second Polish experimental reactor. p. 180

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Energii Jądrowej)  
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Uncl.



KOWALSKA, K.

Nuclear research in Brazil, p. 65.

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*FOULAND*

Monthly List of European Accession (EEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.

POL/046/61/006/003/001/005  
D209/D303

AUTHOR: Kowalska, Krystyna

TITLE: Multizone reactor calculations

PERIODICAL: Nukleonika, v. 6, no. 3, 1961, 157-168

TEXT: In this paper, the author describes the use of the two-group diffusion equations together with an iteration procedure proposed by A.D. Galanin (Ref. 2: Teoriya yadernykh reaktorov na teplovykh neytronakh (Theory of Thermal Nuclear Reactors) Moscow, 1959, Atomizdat) for determining critical size and neutron flux distribution in cylindrical multizone reactors. The basic two-group equations, together with the boundary conditions of flux and radial current continuity are first introduced. The normal modification of the equations to take account of resonance and epithermal neutron capture in the case of uranium-water lattices is also presented as designated by J. Arkuszewski (Ref. 4: Równania "dwu

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i pólgrupowe" i ich zastosowanie do układów uranowo-wodnych (Two-and-a-half group" Equations and their Application to Uranium-Water Systems), Nukleonika 3, 166, 1958) and referred to as the two-and-a-half group equations. After stating that the differential equations may be transformed into difference equations by replacing the differential operators by difference quotients, the author proceeds to derive the difference equations from elementary considerations of neutron conservation. The reactor is taken to be multi-zonal in the radial direction only, and a buckling term is introduced to account for axial variations. Each zone is divided into a set of concentric annular regions of width  $\Delta s$  (not necessarily constant) and the fast and thermal neutron balance equations for the  $s^{\text{th}}$  annulus are derived. In solving the equations, a trial value of thermal neutron flux is used, and the ratio of thermal fluxes

obtained in successive iterations  $\frac{N^{i-1}}{N^i} = \frac{1}{k_{\text{eff}}}$ , the inverse of the

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effective multiplication constant, which will be unity when the reactor is just critical. The solution of the equation consists, therefore, in determining the width of the neutron multiplying zone, the width of the other zones being fixed, for which

$\frac{N^{i-1}}{N^i} = 1$ . Taking  $\Delta_s$  constant throughout a zone, gave inaccurate flux distributions, particularly at the zone boundaries. Thus, values of  $\Delta_s$  were distributed throughout a zone by a parabolic relation, ensuring small values near boundaries and larger values at the center. The total number of points was specified for the zones with fixed boundaries, but was taken proportional to the zone width for the neutron multiplying zone. The first calculations used a suggestion by Soviet colleagues /Abstractor's note: No names given/ that there should be 13 lattice points in the core and 5 in the reflector. However, when the variable  $\Delta_s$  system was introduced

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an average of 30 points was used. The calculations may be extended to more than two groups and more than three zones, depending on the available computational facilities, "URAL 2" being mentioned in this context. A description of the computing procedure follows. It starts with a trial thermal flux value of 1 in all regions, and after several recursions the ratio

$$\frac{N^{i-1}}{N^i}$$

converges to some limit. If this differs from 1 by less than  $10^{-4}$ , the system is critical. If this situation is not reached, the computer adjusts the values of  $\Delta_s$  in the multiplying zone and repeats the calculation. On completion of the computation, the computer records all nuclear parameters used, the number of spatial points in each zone, the final values of  $\frac{N^{i-1}}{N^i}$ ,  $\Delta_s$ , and the coefficients in

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the difference equations, together with the neutron fluxes at all spatial points. So far, calculations have only been made for  $\Delta_s$  constant in a zone, and a total of 18 spatial points. Assemblies considered have been: a) Graphite reflected, 20 % enriched water reactor with central water neutron trap; b) (a) with an indium sulphate filled central irradiation loop; c) 90 % enriched, graphite-moderated and -reflected, water-cooled zero power assembly with central power loop mock-up; d) High flux reactor of type (c); e) Central uranium-water lattice as in (a) surrounded by a natural uranium-graphite lattice, water-cooled and graphite-reflected. Calculations were performed by the medium-size computer XYZ built in the Computer Research Center of the Polish Academy of Sciences, which took about half an hour for each calculation. Results of the first two calculations were checked by the desk computer, and the accuracy was checked by using the adjoint equations for neutron importance. These indicate an accuracy of about 5 %, although the accuracy of computation is 1 in  $10^5$ . Programs are in preparation

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for two-dimensional calculations and for the introduction of more groups, variable  $\Delta_s$ , and a variable number of spatial points. The author thanks M. Greniewski, D.Sc., A. Nahr, M.Sc., and E. Pleszczyńska, M.Sc., for mathematical preparation of the problem for the computer, and S. Bogumił for carrying out the calculations on a desk calculator. There are 5 figures and 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: R.L. Murray, Nuclear Reactor Physics, New York, 1957, Prentice-Hall Inc., and A Conceptual Design of a Food Irradiation Reactor, AECU 3361.

ASSOCIATION: Polish Academy of Sciences, Institute of Nuclear Research, Warsaw.

SUBMITTED: January, 1961

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Activation of glue joints with infra red radiation. Przegl  
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KOWALSKA, Krystyna, M., mgr inz.

Purification of sewages containing surface active  
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POLAND/Cultivated Plants - Medicinal. Essential Oil-Bearing.  
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Abs Jour : Ref Zhur Biol., No 12, 1958, 53885

Author : Borkowski, B., Kowalska, M., Kozlowski, J.

Inst : -

Title : The Biological Activity of Raw Rhiz. Valerianae and Its  
Oil Content in the Second Year of the Plant's Life.

Orig Pub : Farmac. polska, 1956, 12, No 8, 197-202

Abstract : During the year the oil content fluctuated from 0.5 to  
1.5%. The biological activity, determined by Kaminskiy's  
method on tench fry, proved to be highest during the  
period of intensive growth of the plants in May, and also  
during the period of blossoming in the field. The oil  
content of the root increases with lower temperature.  
Parallelism between the biological activity of the ex-  
tract and the oil content in the root was observed. --  
Z.I. Zhurbitskiy

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RUTKOWSKI, Antoni; KOWALSKA, Maria

Influence of synthetic detergents on the skin. Przegl. dermat., Warsz. 8  
no.4:483-490 July-Aug 58.

1. Z Instytutu Przemysłu Tłuszczowego Dyrektor: doc. dr inż. A. Rutkowski Z Kliniki Dermatologicznej A. M. w Warszawie Kierownik: prof. dr S. Jablonska. Adres: Warszawa, Instytut Przemysłu Tłuszczowego, Rakowiecka 8.

(SKIN, eff. of drugs on  
synthetic detergents (Pol))  
(DETERGENTS, eff.  
on skin (Pol))

DUBROWSKI, J.; HORNOWSKI, J.; KOWALSKA, M.; SICINSKI, A.

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tygod.lek. 5 no.45:1558-1559 6 Nov 50. (CML 20:5)

1. Of the First Clinic of Internal Diseases of the Medical Academy  
in Warsaw (Head--Prof.A.Biernacki,M.D.) and of the Institute of  
Physiology (Head--Prof.Fr.Czubzlski,M.D.) of Warsaw Medical Aca-  
demy.

SEGAL, Pawel; KOWALSKA, Maria

Hazard of allergic complications in local administration of  
sulfonamides. Wiadomosci lek. 7 no.10:543-547 Oct 54.

(SULFONAMIDES, injurious effects,  
allergic reactions in local admin., hazards)  
(ALLERGY,  
to sulfonamides in local admin., hazards)

KOWALSKA, Maria; SICINSKI, Alfred; SZAJEWSKI, Janusz

Therapy of peripheral vascular disease with intraarterial drips of a histamine solution. Polski tygod.lek. 10 no.14:420-423 4 Apr 55.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Warszawie; kierownik: prof. dr Andrzej Biernacki.

(VASCULAR DISEASES, PERIPHERAL, therapy,  
histamine solution, intraarterial drips)  
(HISTAMINE, ther. use,  
vasc. dis., peripheral, intraarterial drips)

SOSZKA, Adam; KOWALSKA Maria

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1. Z I Kliniki Chorob Wewnętrznych A.M. w Warszawie i z Ośrodka  
Naukowo-Leczniczego tej Kliniki w Ciechocinku. Kierownik: prof.  
dr.med. A. Biernacki. Warszawa, ul. Raszynska 15 m. 5.

(BANYOLOGY, in various diseases)

vasc.dis.,peripheral)

(VASCULAR DISEASES, PERIPHERAL, therapy,  
balneother.)

KOWALSKA, Maria

Results of the treatment of peripheral vascular diseases with  
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prof. dr med. A.<sup>B</sup>iernacki. Warszawa, Krasinskiego 18m 66.

(VASCULAR DISEASES, PERIPHERAL, therapy,  
vasc.massage with syncardial appar.)

(PHYSICAL THERAPY, apparatus and instruments,  
syncardial appar. for vasc. massage in peripheral  
vasc.dis.)



KOWALSKA, Maria; SICINSKI, Alfred

Results of therapy of peripheral vascular diseases with intra-arterial drip of histamine solution. Polski tygod. lek. 13 no.31:1196-1199 4 Aug 58.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Warszawie; kierownik: prof. dr nauk med. A. Biernacki. Adres: I Klinika Chorob Wewnętrznych A. M. w Warszawie, ul. Nowogrodzka 59.

(THROMBOANGIITIS OBLITERANS, ther.

histamine, intra-arterial drip (Pol))

(ARTERIOSCLEROSIS, OBLITERANS, ther.

same)

(HISTAMINE, ther. use

arteriosclerosis & thromboangitis obliterans, intra-arterial drip (Pol))

KOWALSKA, Maria

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dr nauk med. A. Biernacki. Adres autora: I Klinika Chorob Wewnętrznych  
A.M. w Warszawie ul. Nowogrodzka.59.

(VASCULAR DISEASES, PERIPHERAL, physiol.

electromyography (Pol))

(ELECTROMYOGRAPHY, in var. dis.

peripheral vasc. dis. (Pol))

BIERNACKI, Andrzej; CZARNIECKI, Wincenty; DORYWALSKI, Tadeusz, GLINSKA, Danuta; KOWALSKA, Maria; KROTKIEWSKI, Andrzej; SICINSKI, Alfred STASIAKOWA, Lucja, SZAJEWSKI, Janusz; WALASZEWSKA, Barbara

Remote results of conservative therapy of peripheral vascular diseases.  
Polskie arch.med. wewn. 28 no.5:771-778 1958.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Warszawie. Kierownik:  
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(VASCULAR DISEASES, PERIPHERAL, ther.  
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SOSZKA, Adam; KOWALSKA, Maria; STASIAK, Lucja

Balneotherapy of arterial diseases in Ciechocinek. Polskie arch.  
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dr nauk med. A. Biernacki. Adres autora: Warszawa, ul. Raszynska 15.

(BALNEOLOGY, in various dis.

arteriosclerosis & thromboangiitis obliterans (Pol))

(ARTERIOSCLEROSIS, OBLITERANS, ther.

balneother. (Pol))

(THROMBOANGIITIS OBLITERANS, ther.

same (Pol))